

Volume 26, No. 6, June 1994

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CAROLINA COUNTRY

Official publication of Carolina Electric Cooperatives

What is different about this car?

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Satellite TV Update
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Carolina Electric Cooperatives is the network of electric cooperative organizations that provides reliable, safe and affordable electric service to 600,000 homes, farms and businesses in North Carolina. At the heart of Carolina Electric Cooperatives are the state's 28 Electric Membership Corporations, each member-owned, not-for-profit and overseen by a board of directors elected by the membership.

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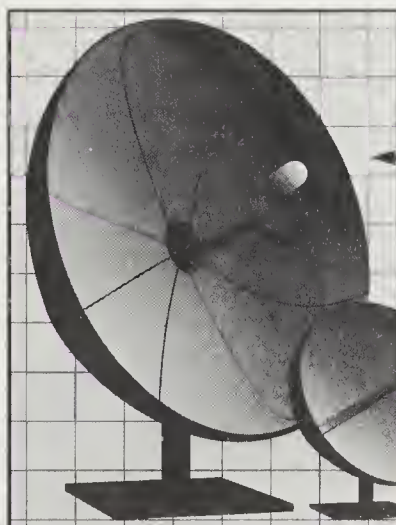


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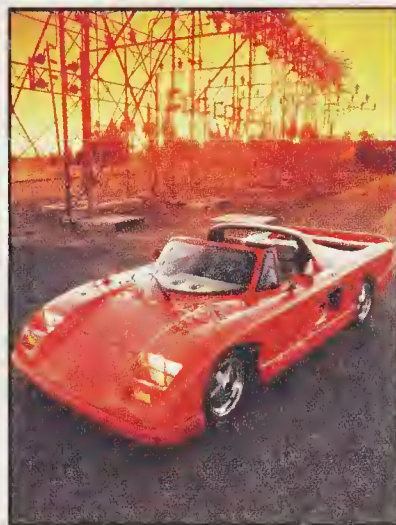
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The 1994 electric GTP Sports Coupe, made of all composite materials by U.S. Electricar, Santa Rosa, Cal. Photo courtesy of U.S. Electricar, Inc.

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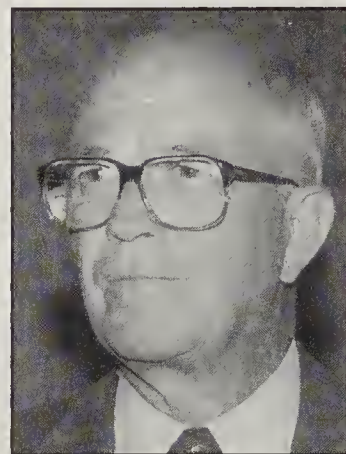
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Mars Krispies.

A shining reservoir of respect

By J. Douglas Donehue



Evenings in Middle Creek Valley are a good time to walk along Six Springs Road. It is quiet and fragrant and the few neighbors are always hospitable. The only sound is the distant gurgle of Middle Creek.

When night falls, we can look out across the valley and see lights in houses along Middle Creek Road. Otto is three miles down the valley. There's the post office, Mary's Kountry Kitchen, a Texaco station, a crafts shop and a used car lot. Up the hill from Highway 441 is the volunteer fire department, our school and a few houses. That's Otto, N.C., about nine miles south of Franklin.

I am 66, and sometimes I think about what has changed during my life in these mountains of Macon County, and in Jackson County and over in Haywood and Madison counties.

As children, we would visit relatives over in Cowee Valley, and Daddy drove his A-Model Ford through the creeks to get there. There were no bridges—not one.

My younger brother and I, and a host of first cousins, would spend most of the summer at my maternal grandparents' home just outside Sylva in Moody Bottom.

Sylva was a bustling, live-wire town in those days of the late 1930s. The Mead Paper Company mill ran 24 hours a day and provided jobs for a good many Jackson County men, including my uncle Wiley Shepherd.

The Armour Tannery was just up the railroad tracks from the paper mill and it, too, ran around the clock, employing quite a few Jackson County

residents, including my maternal grandfather, John Thomas Shepherd.

We used an outhouse located on the side of a hill between Grandpa's house and the barnyard. It was near the back porch of the house, and I honestly don't remember anyone complaining about having to negotiate that distance, regardless of the time of night, or the weather.

Granma gave us young'uns clean-scrubbed Scoco or Swift lard buckets to carry to the spring and fetch water. She kept butter and clabber and other items cold in a spring box just below the spring.

This evening, our refrigerator hums, and the pump snaps on and off as the demand for water in the house dictates. My wife is sitting in the living room, reading a historical novel by the light of a lamp on a table to her left. We watch television, play tapes, and listen to the radio. My electric typewriter clacks away in the night as I record these thoughts.

Electricity!

What a difference it has made in the lives of so many people!

We talk about the "good old days," and fondly remember a simpler life-style. But I have to wonder if anyone, no matter how old, would truly prefer to live in these mountains without electricity. I doubt it.

Today, friendly utility poles line Six Springs Road. They are numbered and stand proudly erect as though endowed with some intense responsibility. They are benevolent reminders of how life has improved for the people who live here.

Just down the road the Heywoods' garden flourishes. It is surrounded by an electrical fence that keeps out McDowell Mountain critters who would like to share in the Heywoods' bounty.

How many other uses has electricity been put to by the members of the electric cooperatives? There would be so many stories, if all of them could be told. Many of them are told, of course, as neighbors compare notes and as communities prosper and grow because they have electricity. They may not be told in print, or over the air and video waves of the electronic media, but they are told.

Electricity has connected the lives of every person who lives in these beautiful mountains. So many people here today have come from somewhere else and some will go somewhere else. When I was a sub-teenager spending the summer with grandparents, the only people I ever saw were people who always lived here. Very few of them ever ventured out of these mountains.

The modern miracle of electricity opened a new, broad view to the residents of these mountains. It has exposed us to the rest of the world, and it has exposed the rest of the world to us. And if you look closely, you will see a great and shining reservoir of respect and admiration for mountain folks throughout this region.

J. Douglas Donehue is a member Haywood Electric Membership Corporation and director of Corporate Communications for Evening Post Publishing Co. of Charleston, S.C.

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By Teresa A. McLamb

Jordan Lake

The Cape Fear River at Wilmington.

On any early morning this month, both these scenes could happen at the same time on the Cape Fear River:

A solo canoeist glides gracefully with the current. All she hears is the soft dipping of her paddle in the water. Above her in a cool, green canopy, songbirds greet the morning, call to each other, dart from tree to tree and hide among the leaves.

Downriver, a crane crouches on the edge of a huge dock. The operator looks through the glass floor of his cab to the deck of ship spread 450 feet to either side. He works the hoist down 100 feet and secures a 60,000-pound container box onto the crane's spreader bar, then lifts the box into the air, swings it over the ship and rests it onto a truck bed. It's a scene of clanging metal, humming and whining machinery, the crackling static and barks from a VHF radio.

The canoeist could be almost anywhere on the river between Fayetteville and Moncure. The crane is at the State Port of Wilmington. They illustrate how one river is many, how one river serves different purposes, and how interconnected all of us are who live along the Cape Fear River Basin.

Beginning with the Haw and Deep rivers in Guilford County, the Cape Fear increases in depth, width and commercial possibility as it flows through 29 North Carolina counties to the Atlantic Ocean below Southport. It flows nearly 200 miles

to the sea. Along the way, cities such as Cary, Fayetteville, Elizabethtown and Wilmington draw their drinking water from it. Industries use it for manufacturing processes and discharge their treated waste into it. Fish and wildlife depend upon it for sustenance. The livelihoods of thousands of North Carolinians

Harris Lake

MONCURE

LILLINGTON

FAYETTEVILLE

Cape Fear River: What lies ahead?



Melva Caldwell

Recreational canoeing on the Cape Fear.



Ty Rowell

are connected to the Cape Fear River.

The Cape Fear is North Carolina's largest river basin. Yet, we know remarkably little about the natural processes occurring in the river.

"The government and many businesses along the river take regular samples, but they're all using different strategies," says James Merritt, director of the University of North Carolina-Wilmington Center for Marine Science Research. "Because there's no coordination in the monitoring, we do not have a database suffi-

WILMINGTON

ient to make intelligent decisions about the river's health."

For the Cape Fear to survive, decisions affecting it must be made with a thorough knowledge of their short- and long-term consequences.

If we dredge its bed, as is proposed for the shipping channel from the ocean to the State Port of Wilmington, what are the effects of a deeper, saltier river?

If a landfill is placed near the Haw River, as has been suggested, what effect will it have downstream to Jordan Lake and at the confluence of the Deep and Cape Fear rivers?

If the population of Cary and the Triangle continues to climb, will more water be pulled from the Cape Fear and discharged in the Neuse in what is called "inter-basin transfer," and what effect will that have upon the volume of the river and its tidal flow?

"We only need to look at history to get some answers," says Merritt. "We know that dredging done in the 1890s increased the salinity of the river near Wilmington, resulting in the death of a giant cypress forest. On the good side, it also increased the size of the estuary which created more territory for fishes and other juvenile life forms to grow. That helps the recreational and commercial seafood harvest."

Fully 90 percent of the seafood caught off the coast of North Carolina is dependent upon the estuarine system, including the one located in the Cape Fear, says a report from the Division of Marine Fisheries.

Leaching from almost any source, landfill or otherwise, has an effect on the river. A stark demonstration of this occurred during the almost

statewide rain storms in March. As far south as the Elizabeth River lock and dam, the Cape Fear River was colored red by soil washed down from the Piedmont. Agricultural run-off presents the same situation. Fertilizers and chemicals used in fields ultimately find their way into the water, where they tend to reduce the river's level of oxygen that supports fish and aquatic plant life.

Jim Cummings of the N.C. Division of Soil and Water Conservation says farmers are reimbursed about \$8 million annually for some of their costs associated with measures designed to solve water quality problems. Cummings says these "best management practices," as they're called, are "structural or vegetative measures that farmers or anyone could use for protecting water quality," including field-side buffers and holding ponds for animal waste.

Pollution is considered anything foreign and unnatural that directly or indirectly ends up in the river. While the Cape Fear is far from dead, it is polluted by runoff from clear-cut woodlands, fertilizers and pesticides, treated sewage and waste, and many other sources. The state Division of Environmental Management

reports that 90 percent of the pollution is "non-point source pollution," which is the indirect and often unintentional addition of foreign substances, such as fertilizer residue and detergent used in washing the family car. The other 10 percent is "point source pollution" — identifiable discharge into the river, treated or otherwise.

The issue of inter-basin transfer has arisen because the river is the municipal water supply for Cary and neighboring Apex. Their water is drawn from Jordan Lake — a huge holding reservoir for the Cape Fear — and eventually is transferred as treated wastewater into the Neuse River. The transfer is as politically volatile a topic as it is environmentally and economically sensitive.

"Inter-basin transfer is a very serious issue we've seen played out internationally between the U.S. and Mexico, or stateside between various states, particularly out west with the Colorado River and Rio Grande," says UNCW Chancellor James Leutze. "I see it as a really big political issue of the 20th century.

because as you get population growth and more need for water, people will tap whatever sources are nearby."

While certain issues associated with the Cape Fear are clear, we simply do not know enough about the river to answer all the questions that are asked.

Hoping to save the Cape Fear from the fate suffered by many dying American rivers, businesses in the Lower Cape Fear River basin have joined with government agencies and the University of North Carolina at Wilmington to develop a long-term

research program which will establish and maintain a database of coordinated monitoring. The long-range goal is to implement the program throughout the basin in cooperation with other river-interest groups. Major funding for the program has already been received from AAI (formerly Applied Analytical) and Carolina Power and Light.

Even more than the river itself, says chancellor Leutze, "we need to look at the banks of the streams and higher up the strip around these rivers and estuaries that are sensitive to occurrences all along the strip. You can't just look at the banks of the Cape Fear River; you have to look at the Haw and the Deep and the swamps."

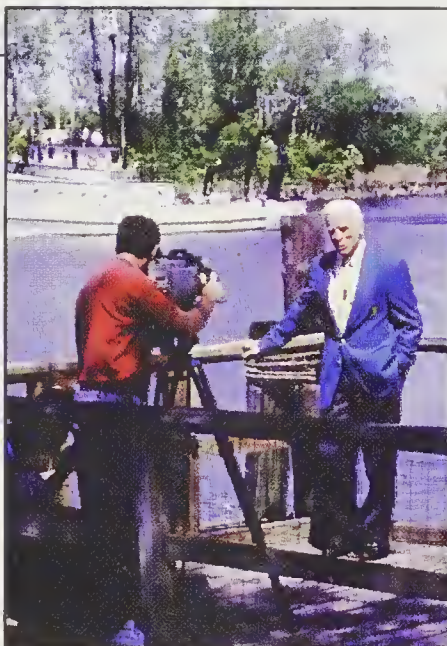
James Merritt says, "We know that for any action considered along the river basin, there will be a consequence. We need to know exactly what that consequence will be. We can't afford surprises. We need to have definitive answers, and that's what the plan is designed to give us."

Teresa A. McLamb is a communications consultant and freelance writer in Wilmington.

River Run

A documentary, "River Run," exploring the issues facing the Cape Fear was produced recently by UNC-Wilmington and filmed by Broadcast Services of North Carolina State University. The one-hour program will air at 9 p.m. Monday, June 13 on University of North Carolina Television. The video and accompanying study materials will be made available to public schools in the fall.

For more information, contact University Advancement, UNC-W, 601 South College Rd., Wilmington, N.C. 28403-3297.



Meiwa Calder



*If you think they're a
new idea, they're not.*

*If you think they're
slow, they're not. And*

*if you think they
resemble alien
spaceships, they don't.*

*Take a new look at
electric vehicles,
because you might be
driving one sooner
than you think.*

*To recharge an
electric car, just
plug it into an
outlet.*



Emerging Traffic

By Susan R.
Gilbert

Like the dinosaurs, electric vehicles once roamed the planet. Then they disappeared. At the turn of this century, electric cars were the favorite vehicle of city aristocrats. New York City had a fleet of electric taxicabs. The first 50 women drivers drove electric cars. There was even a chain of electric charging stations across New England. During the late 1800s and early 1900s Americans drove more electric than gasoline- or steam-powered cars, because they were cleaner, quieter and more reliable.

All that changed with the invention of the electric starter for gasoline engines and Henry Ford's introduction of the Model T. (Henry owned three electric cars himself, by the way.) Gasoline-powered cars became more powerful, performed better, needed less refueling, and were cheaper to operate than their electric counterparts. By the late 1920s, electric vehicles had all but vanished.

Unlike the dinosaurs, however, electric vehicles (known as EVs) are staging a comeback. Growing concern about pollution and dependence on foreign oil renewed serious interest in electric vehicles in the 1980s. Today,

government and private industry are spending millions of dollars on electric vehicle research.

Driving this resurgence is legislation passed by the state of California that requires 2 percent of all vehicles sold there have zero emissions by 1998. Also, 12 northeastern states are adopting similar policies. If companies are to compete, they'll have to make vehicles that run on fuel source that produce little or no polluting emissions. EVs are part of the answer.

So what exactly is an electric vehicle?

An electric vehicle is powered by one or more electric motors. A motor controller regulates the amount of current from batteries to the motor. As the driver steps down on the throttle, more current flows to the motor. In many cases, the motors are coupled directly to the wheels, eliminating the need for a transmission. Electric motors can also be mounted directly to a manual transmission, allowing the use of a smaller, quieter motor.

Excluding highly experimental vehicles, EVs look like the gasoline-powered cars, trucks and vans we se



every day. Typically, they're made one of two ways. EVs are built from the ground up (often using new lightweight composite materials for the body), or gasoline-powered vehicles are "disassembled" and refitted with EV components.

Some people describe driving an EV as "eerie," because the car doesn't actually start. There's no sound, no vibration. The electric motor doesn't run until you press the pedal. (If you've driven a golf cart, you have an idea what it's like.)

Even at full speed, an EV is very quiet. EVs can't go as fast as gasoline-powered cars, but they can reach 60 to 70 miles per hour, which is more than fast enough for commuting or running errands.

The heart of any EV is a large bank of batteries located in the vehicle. They're charged by plugging the vehicle into a source of electricity. While not everyone agrees on which type of battery is best, lead-acid batteries are the most commonly used. According to Carl Parker of

the Advanced Lead Acid Battery Consortium in Research Triangle Park, EVs will almost exclusively depend on the lead-acid battery well into the next century. Lead-acid batteries are the most practical to use because they're available today and facilities to recycle them are already in place. However, research continues on batteries that produce higher energy.

The main stumbling block for electric vehicles is that lead-acid batteries can offer a range of only about 80 miles before the vehicle must be plugged and recharged. And that's under ideal conditions. Running the heat, air conditioning, headlights, or windshield wipers all take their toll on the batteries. Adding more batteries would make the car too heavy.

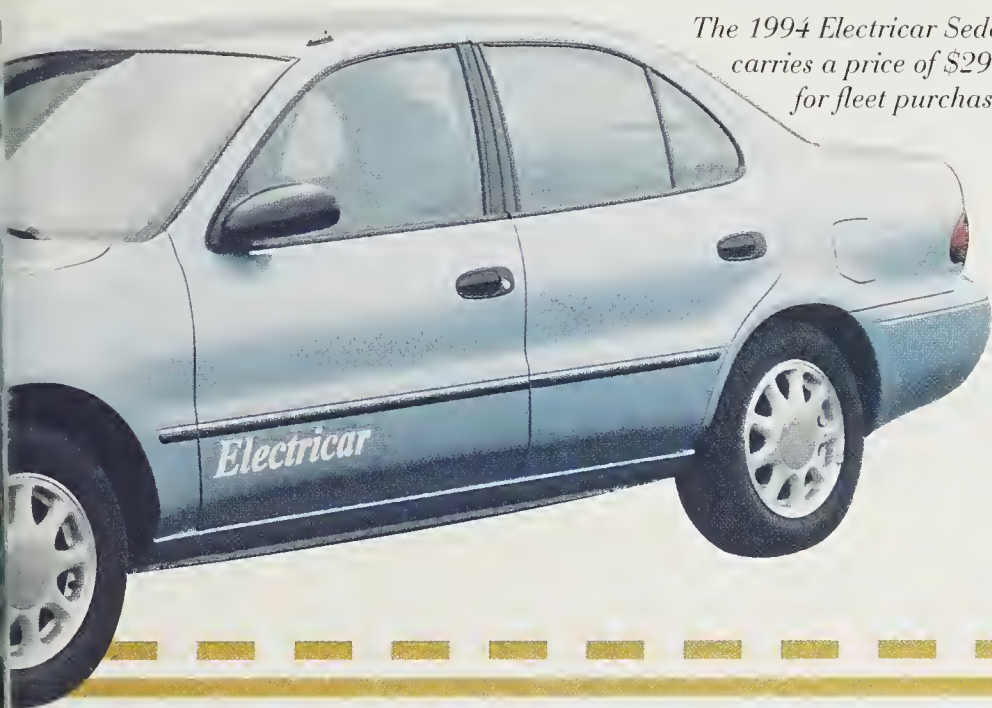
But experts say 95 percent of all vehicle trips fall within the range of current EVs. That percentage is based on a national average for a round-trip daily commute of 22 miles. "We suspect most rural consumers drive longer distances," says John Neal, head of research at the National Rural Electric Cooperative Association (NRECA). "We think we need to see a recharging range of a couple of hundred miles for electric vehicles to be attractive to rural consumers." So today's EVs are fine if you go to work nearby, come home, and plug in your car.

Another key issue is how fast EVs can recharge. It takes about eight hours to recharge an EV if it's plugged into a standard 120-volt outlet. Faster refueling will probably have to come from a high-voltage source at some sort of charging station. Engineers are developing rapid recharge devices, according to the Union of Concerned Scientists, that will charge batteries in 15 or 20 minutes.

Another idea being tested is the swapping station, where a forklift takes out your spent batteries and puts in a fresh set, all in a few minutes.

Ultimately, widespread use of EVs won't occur until there is a support network equivalent to gasoline fueling stations. If gas stations can succeed, so can charging stations. William Schaller, a licensed distributor in Zebulon for both Solar Car Corporation and Diversified Technical Services, believes oil companies could play an important role: "If gas stations also offered recharging services for EVs, it would be a win-win situation for the petroleum industry. We welcome any opportunities to work with them."

EVs today are not mass produced, but that may change soon. General Motors, Ford and Chrysler are gearing up to



The 1994 Electricar Sedan carries a price of \$29,000 for fleet purchases.

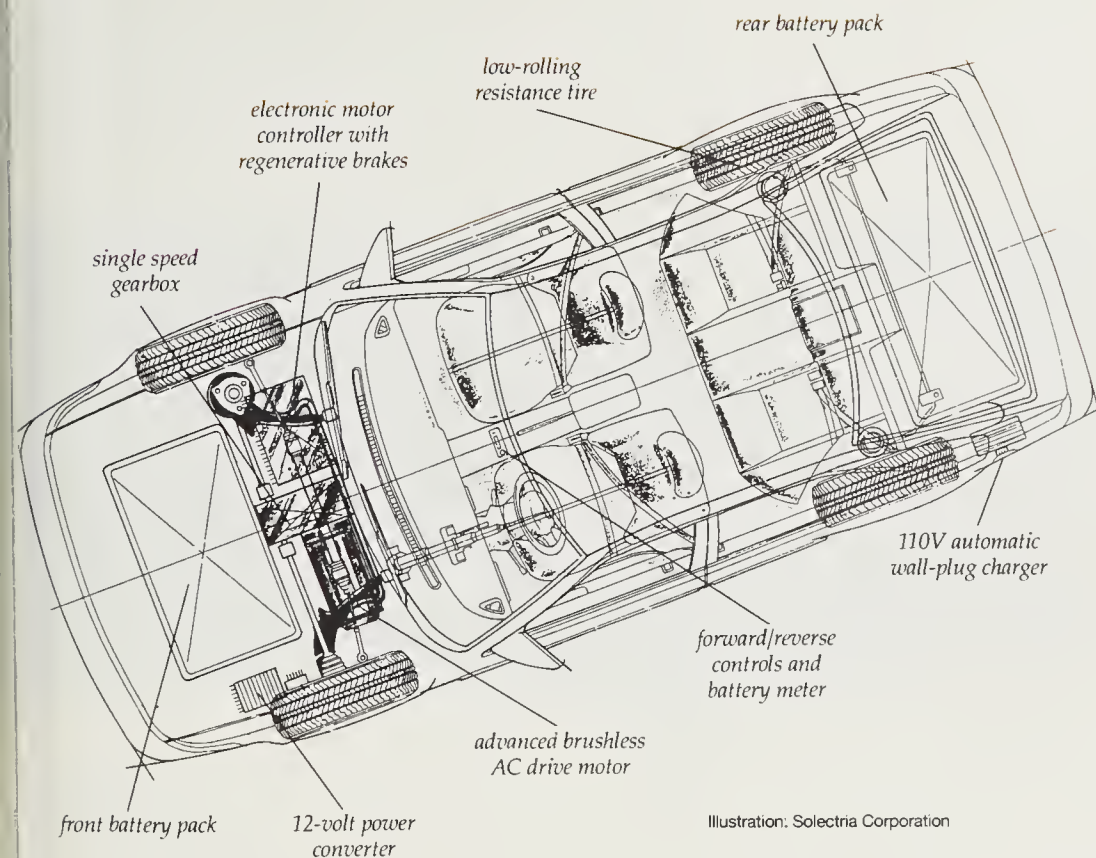


Illustration: Solectria Corporation

make EVs. They're even talking about working jointly. Chrysler is the first major auto maker to meet California's 1998 zero-emission rule with its TEVan, an electric version of the Dodge Caravan. Car companies in Japan and Europe are also developing EVs. The biggest challenge is to match, as closely as possible, the performance consumers have come to depend on from gas vehicles.

A converted Geo Metro on the road today has a range of about 50 miles, a 65-mph top speed, takes eight hours to recharge, and sells for about \$20,000. The GM Impact, with a 100-mile range, is projected to cost \$25,000. And mass production should bring down those prices.

Right now, the cost of EVs is high, but the federal government offers a significant tax deduction for buying an EV, and maintenance is simple and fairly inexpensive. Modern EVs have many complex electronic parts, but they have fewer mechanical parts than do gasoline-powered cars. About all you have to do is remember to add water to the batteries. Batteries last around 20,000 to 30,000 miles, and replacing them costs \$1,500 - \$2,000.

"With any type of alternative energy system, it's more expensive up front," says Schaller, "but over the life cycle of the product, it can be cheaper."

The Concerned Scientists say the cost of the electricity needed to power electric cars runs about one-fourth the price of gasoline.

Will we have enough electricity to power a nation of electric vehicles? Virtually everyone believes we will, particularly if EVs are used for commuting and most people recharge their vehicles at night, when utilities have surplus generating capacity.

But what about increased emissions from the power plants? How EVs will affect air pollution depends primarily on how the electricity is generated. The vehicles themselves produce no emissions, but if they're drawing power from a coal-burning plant, the effects on smog could increase around that plant.

Old batteries are also a concern. Sixteen to 18 old batteries per car translates into about a half ton of scrap. Ideally, all batteries would make their way to a lead-recycling plant.

The number of electric cars and trucks on U.S. roads is expected to grow rapidly during the late-1990s, as federal and state laws requiring their increased usage

Tooling around the Triangle

The North Carolina Alternative Energy Corporation operates a 1986 Pontiac Fiero (converted to an EV by Solar Electric Inc. of Santa Rosa, Cal.) in order to test the cost, performance and charging patterns of an EV as a commuter. Equipped with 18 six-volt batteries (66 pounds each), the car does 0 - 30 mph in 6.5 seconds, and can reach speeds of 76 mph. It runs about 45 miles on a charge at interstate speeds, up to 65 miles at constant low speeds and takes 8 to 10 hours to charge. Operating cost is comparable to driving a 38-mile-per-gallon vehicle. The data gathered from using this car will be crucial for utilities if a large number of EVs hit the road.

For more information, contact N.C. Alternative Energy Corporation, P.O. Box 12699, Research Triangle Park, N.C. 27709. Phone (919) 361-8000.



The cost of this car delivered to AEC in 1991 was \$18,200.

What else can you drive?

EVs aren't the only kind of alternative fuel vehicle. Experiments are producing "hybrid" or "dual-fueled" vehicles, which feature more than one fuel source. One of the most common is the solar electric vehicle, which has solar panels imbedded in the roof, hood, and trunk of the vehicle. Solar energy can extend an EV's range on a sunny day and can "trickle charge" or "exercise" the batteries to lengthen their life. Another area of research is a vehicle that relies on petroleum and electricity, where a fuel such as diesel is used to start the vehicle, and electricity takes over once it's under way. This two-fuel method might prove effective for buses, which could use diesel fuel in the suburbs and switch to electric power in the cities.



Solar electric car owned by Mike Niklas, N.C. Solar Energy Assn.

go into effect. The Union of Concerned Scientists estimates that emerging regulations will mean that 10 years from now, one of every 10 new cars leaving the showroom will be electric. And they will

move on down the road very steadily, very quietly.

Susan R. Gilbert is a communication specialist in Apex.

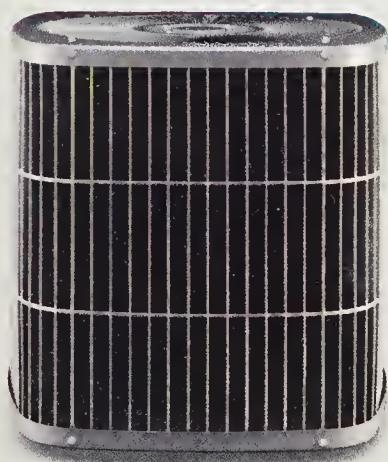


Electric Peach Ice Cream

- 6 to 8 large peaches, peeled and sliced (about 7 cups)
- 3 cups milk, divided
- 2 large eggs, lightly beaten
- 1 (12 oz.) can evaporated milk
- 2 1/2 cups sugar
- 1 (12 oz.) can peach nectar

Combine half of peaches and 1/4 cup milk in blender. Process until smooth. Transfer to a medium bowl, and repeat procedure with remaining peaches and 1/4 cup milk. Set aside. Combine remaining 2 1/2 cups milk and next 3 ingredients. Cook over medium heat 8 minutes, stirring occasionally. Remove from heat, stir in peach mixture and nectar. Pour into container of 4-qt. electric freezer. Freeze according to manufacturer's instructions. Yield: 1 gallon.

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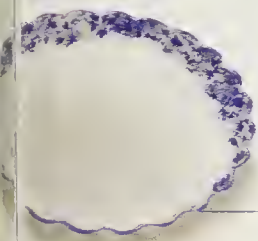
how much it has improved, it's probably costing you money on your heating and cooling bills.

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Dawn Wilson / The Mountaineer

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What about grapes?

I have half an acre of land that is not in cultivation, and I am considering putting in grapes. Could you please help me in getting literature or any kind of information on this crop?

Hallie Roberson, P.O. Box 411
Washington, N.C. 27589

In search of Little Red

At one time, I saw in your magazine the pattern of Little Red Riding Hood, Grandmother, and the Wolf. It is one pattern, with all three together: on one end is Grandmother and the Big Bad Wolf, and on the other end is Little Red Riding Hood. I am trying to find this pattern. If you can find it, please let me know.

Lou Anne Cogburn
Rte. 2, Box 464
Canton, N.C. 28716

We're still looking. Do any readers know about this pattern?

in Canton. The colony of 56 gourds is maintained proudly by Champion's painters, carpenters, pipe shop, waste treatment staff and a local construction firm, Imoco.

Clyde's son

I appreciated your mention of Clyde Moody in the early years of the Grand Ole Opry [February 1994]. He was my Dad, and he died in 1989. Bill Munroe, Roy Acuff, Eddie Arnold and many others in the business attended his funeral.

He established himself in the music entertainment business in Tennessee, then left for a while



Clyde Moody

and sold mobile homes in Raleigh for a few years. But he wanted to get back into music and returned to Tennessee. He bought six acres on a mountain outside of Nashville. Today, Randy Travis lives on land that borders what Dad used to have.

A. Moody
Statesville

Clyde Moody was born on the Cherokee Reservation in Hayesville and raised in Marion. He taught himself to sing and play guitar. He played with Bill Munroe's Blue Grass Boys, who recorded his "Six White Horses." His most famous recording was "Shenandoah Waltz." The Clyde Moody Bluegrass Park in Ashland City, Tenn. is a memorial to him.

Fresh country air

Kudos to you on raising the efficacy of your publication. I refer to the use of more recognizable typefaces, the avoidance of low-contrast colors for headings, and the use of column widths that more nearly follow recommendations and achieve reading comfort. I had consciously avoided Carolina Country for many months, but it is now like a breath of fresh air. You are allowing the information to speak for itself, without the manipulation of trendy artistry getting in the way.

W.W. Wolfgang,
Morganton

Champion birds

After reading the article about purple martins [March 1994], I saw this article in our local paper. Quite a few Champion employees have ties with Haywood Electric and Blue Ridge Mountain Electric. "Little things" like this sometimes go unnoticed.

Peggy M. Setzer
Canton

Mrs. Setzer sent an article by Dawn Wilson of The Mountaineer newspaper, Waynesville, reporting on the purple martin nest colony near the Champion plant

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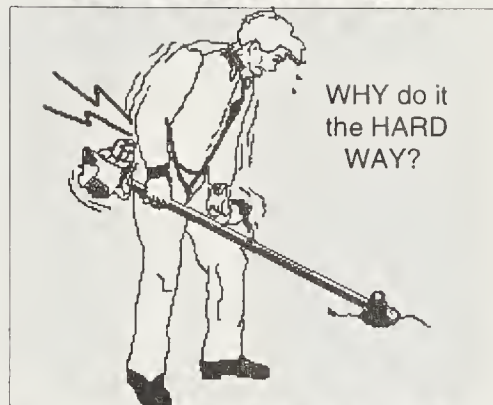
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News of the Cooperatives



**Youth retreat is
Aug. 12-14.**

Youths may apply for summer retreat

Rising high school freshmen and sophomores associated with a North Carolina electric cooperative may apply for the 1994 Youth Energy Retreat scheduled for Aug. 12-14 at the Penn 4-H Center in Reidsville.

The retreat offers summer recreation as well as education in public speaking, safety, and the principles of cooperatives. Carolina Electric Cooperatives funds the weekend activities for teenagers who are selected by their respective electric cooperatives.

To be eligible a rising freshman or sophomore must be a child or ward of a North Carolina electric co-op member or employee. The deadline for applications is July 15.

For more information, contact your electric cooperative or Lois Goodwin at Carolina Electric Cooperatives in Raleigh. Phone (800) 662-8835.

Business is cozy in Brunswick's "incubator"

Less than three years after it opened for tenants, the Business Development Center built by Brunswick Electric Membership Corporation boasts six small businesses that collectively employ 35 full-time people.

Located in Whiteville, the Business Development Center is designed to attract service-related and light manufacturing enterprises in their budding stages.

The six tenants today share an address, fax machine, copier, receptionist, conference room and parking area. And they share Richard Mickey, who manages the facility part-time and helps people start new businesses through the auspices of Southeast Community College's Small Business Center.

The Whiteville "incubator," as it's called, recently attracted a \$10,000 grant from the North Carolina Technological Development Authority to be used for capital improvements.

Businesses operating at the incubator are Remote Data Systems, Inc., developers of a scientific groundwater testing device; Noone Gloves of Carolina, Inc., a specialty glove manufacturer employing 22 people; Calibrations Ltd., which calibrates electricity meters; Live Oak Timber, Inc., timber brokers; Complete Janitorial Supplies; and Coastal Temporary Services, which provides temporary clerical and business services.

For more information, contact Judy Gore, Brunswick EMC. (800) 682-5309.



Sharon Ervin

Marie and Kenneth Lyttle watch their new home being built.

Neighbors give Lyttles a new home, and electricity

Kenneth and Marie Lyttle prepared to move into a new house this spring, and for the first time in their lives they will experience electricity at home.

During their 49-year marriage, the Lyttles had lived the cabin near Mooresville in south Iredell County where Mrs. Lyttle was born 74 years ago. They had a car and a telephone there, but they chose to live without electricity.

Last February, however, the only home Marie Lyttle had ever known was destroyed by a night-time fire. Authorities said the fire was set deliberately and ignited while the couple was preparing to sleep that night. The Lyttles escaped injury, but saw their home collapse.

Community volunteers rallied, led by Mooresville American Red Cross director Gayle Williams. Church volunteers, civic groups and others cleared the site and planned a new house for the Lyttles

where the cabin had stood. Donations of materials and labor, organized by the Lake Norman Homebuilders Association, resulted in a new house for the Lyttles.

And Crescent Electric Membership Corporation now has a new member household.

Donations toward this goodwill effort will be accepted by American Red Cross - South Iredell County Chapter (earmark checks for "Lyttle Emergency Fund"), P.O. Box 1084, Mooresville, N.C. 28115.

Annual meetings

- Blue Ridge Electric Membership Corporation, Saturday, June 11 at Appalachian State University's Farthing Auditorium in Boone. Registration opens at 8 a.m. followed by business meeting at 9:30.

- Randolph Electric Membership Corporation, Friday, June 17 at Southwest Randolph Middle School in Asheboro. Registration opens at 6:30 p.m. followed by business meeting at 8.

Joyner's Corner

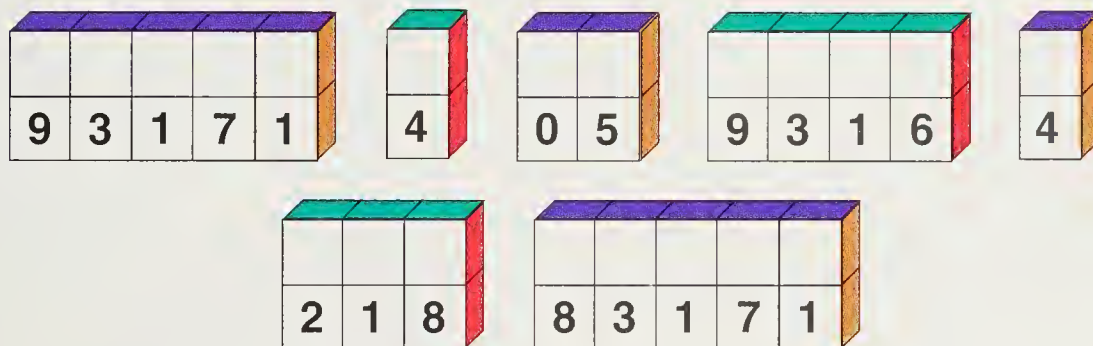
by Charles Joyner



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Use the blocks above to complete the quotation below.

When Michael Jordan was asked why he majored in geography at U.N.C., he answered: "I knew that I would be going places, and I just want to know..."



Answer on page 30.

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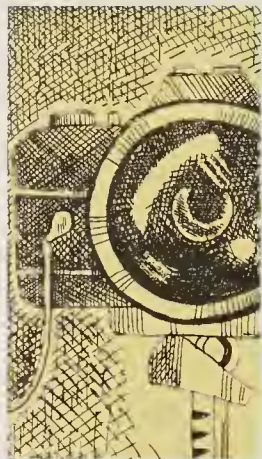
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Focus



New N.C. limits on recreational fishing.

From the farms

The North Carolina State Farmers Market in Raleigh has scheduled special summer events offering North Carolina-grown goodness.

"Crab Day" on June 1 features crabmeat and seafood delicacies. "Shrimp Day" follows on July 6, and "Catfish Day" on Aug. 3.

The Hemlock Bluff Cloggers will dance each month with appearances June 9, July 7 and Aug. 4.

The annual Corn Shucking Festival is July 7. The Watermelon Festival and seed-spitting contest is Aug. 10.

The State Farmers Market is open Monday through Saturday, 5 a.m. to 6 p.m., Sunday 1 to 6 p.m. For more information and a map brochure, contact the Farmers Market at 1201 Agriculture St., Raleigh, N.C. 27603. Phone: (919) 733-7417.



Carolina safety star

Fayetteville's Monsanto Agricultural Group has received the first Carolina Star award given by the N.C. Department of Labor.

The Carolina Star flag will fly over businesses whose health and safety programs "stand as stellar examples for all North Carolina workplaces," reports department Secretary Harry E. Payne Jr.

Businesses must meet specific state standards to qualify and will be re-evaluated every three years.

Alleghany County recipes

The Mt. Carmel Baptist Church Women's Missionary Union in Glade Valley, Alleghany County, has published a cookbook to raise funds for its activities. There are more than 800 recipes.

For a copy, send \$10 to the Union, c/o Blaina Nunley, 408 Memorial Park Drive, Sparta, N.C. 28675.

New youth dairy foundation

The North Carolina Dairy Foundation has established a youth foundation endowment to fund dairy youth activities in North Carolina.

A kick-off fundraiser will be held at 10 a.m. on June 25 at the Stamey Farm, off I-40 near Statesville. There will be an all-breeds registered cattle auction, merchandise and crafts sale.

For information about the foundation, contact Brinton Hopkins, Cooperative Extension, Box 7621, N.C. State University, Raleigh, N.C. 27695. Phone: (919) 515-2771.

Report fraud and waste

Allegations of fraud and suggestions for savings in state government departments can be registered confidentially through the new State Auditor's Fraud, Waste and Abuse Hotline: (800) 730-TIPS.

New recreational fishing regs

New state regulations by the N.C. Division of Marine Fisheries affect recreational fishing this year. They include the following:

- Bluefish: 12-inch minimum, 20 per person daily.
- Blue marlin, white marlin and sailfish: one per person daily per species.
- King mackerel: 20-inch fork length minimum, five per person daily.
- Spanish mackerel: 12-inch minimum fork length, 10 per person daily.
- Blue crab: five inches carapace width, 50 per person and 100 per vessel daily.
- Conch and whelk: 10 per person and 20 per vessel daily.
- Mussels: 100 per person and 200 per vessel daily.
- Flounder: 14-inch minimum, 8 per person daily.
- Weakfish: 12-inch minimum, 10 per person daily.

For more information, contact Division of Marine Fisheries, P.O. Box 769, Morehead City, N.C. 28557. Phone: (800) 682-2632.

Money finds Mint Museum

The Lila Wallace-Reader's Digest Fund has awarded the Mint Museum of Art a \$1.25 million grant to help make its

permanent collections more accessible to people of diverse backgrounds. The \$1.25 million is the largest programming grant ever awarded a Charlotte arts organization according to Michael Marsicano, president of Charlotte/Mecklenburg Arts & Science Council.

The grant will finance a five-year Mint project entitled "You are Here," targeting underserved audiences in Charlotte and throughout the Piedmont of North and South Carolina.

Also, the fall of the German Democratic Republic and the subsequent reunification of East and West Germany to the single German Federal Republic provided the Mint Museum recently with \$18,454 - the largest cash request in its history.

As part of the reunification process, East German property expropriated by the Third Reich and the GDR is being returned to original owners or heirs when possible. The Mint Museum of Art is named among residuary beneficiaries of the estate of Hans Cahen (pronounced "con") of Chicago, who died on September 26, 1983. The museum originally received \$18,000 from Cahen's Chicago estate in 1984, but prospects appeared dim regarding claims on property in Berlin that belonged to his father, publisher Ludwig Cahen, that was seized by the Third Reich. Mint trustee A. Zachary Smith III, an attorney with Kennedy Covington Lobdell & Hickman, initiated a claim on half of the museum at the time.

Cahen's association with the Mint Museum of Art came through his friendship with former Chicago resident M. Melbay Delhom who moved to Charlotte in 1967 to house her internationally-recognized collection of pottery and porcelain in the newly-expanded museum.



1935 Ben Owen vase, now in the Mint's permanent N.C. Pottery Gallery.

Guide outlines aid for farmers

With the maze of bureaucratic red tape surrounding government assistance programs, farmers often miss application deadlines and lose their eligibility for much-needed funds.

The Farmers' Legal Action Group (FLAG) has a new guide to help farmers keep deadlines straight. The new Farmers' Guide to Disaster Assistance lists disaster aid programs and their application deadlines. The 230-page book also describes each program, lists eligibility criteria, explains application procedures, and even advises applicants about what to do if their requests are turned down.

The guide was funded, in part, by FARM AID, the organization formed by singer Willie Nelson and

supported by an annual, star-studded concert.

The guide is available for \$12.95 to farmers, nonprofit organizations and public libraries. The cost for lawyers, law libraries, schools and governments is \$49.95. Send orders to FLAG, Disaster Guide, 46 East 4th St., Suite 1301, St. Paul, MN 55101.

Energy Department retrofits lighting

The Department of Energy (DOE) recently completed an energy-efficient retrofit of its headquarters in the nation's capital.

The James Forrestal Building is a 1.7 million square-foot facility that is home to more than 4,500 DOE employees. The existing lighting system, dating back to the building's construction in 1968, used magnetic ballasts and 1-by-4 fixtures each containing two T-12 40-watt fluorescent lamps. The outdated system consumed close to 10 million kwh/year.

The relighting project, completed in September 1993, replaced the 36,832 existing lighting fixtures with new energy-efficient Phillips Lighting TL*80 lamps, electronic ballasts and specular reflectors. As a result of this extensive retrofit, the DOE anticipates a 62 percent reduction in lighting electricity consumption, more than 6 million kwh/year, for an estimated annual dollar savings of close to \$400,000, according to James Vajda, assistant director for the Office of Administrative Services for the DOE.

The project was part of DOE's Federal Relighting Initiative under the umbrella of the Federal Energy Management Program (FEMP), which has its roots in the National Energy Policy Act of 1992 (EPACT) — one of the most comprehensive energy laws ever passed. FEMP strives to promote higher quality lighting, energy reduction, monetary savings, environmental benefits, employee education and increased productivity.

A majority of fixtures were retrofit with just one TL*80 lamp and a specular reflector, which reflects light from the upper half of the lamp tube onto the point of use. Because less lamps were used to achieve necessary light levels, another 20 percent in energy savings was achieved. Infrared occupancy sensors saved even more energy, insuring that lights were switched on only when needed.

New lighting inside DOE reduces electricity use by 62 percent.



During June each year, specially selected high school juniors take the Rural Electric Youth Tour to Washington, D. C., representing electric cooperatives throughout the nation. Since 1967, nearly 1,000 of North Carolina's brightest students have joined young people from 46 other states in visiting members of Congress, government agencies and historic places in the nation's capital, all in one five-day period.

This year, 44 North Carolina youths were chosen to participate, representing 20 electric co-ops.

Each person's memories, experiences and perceptions of the trip are different. While they all start from the same point, it's interesting to see where they are farther down the road.

Karen Moore Lloyd

In 1980, Karen Moore Lloyd represented Lumbee River EMC on the Youth Tour. She remembers meeting Congressman Charlie Rose in D.C., but mostly she remembers learning about cooperatives. "The biggest thing that rubbed off on me on the trip was what I learned about the co-ops," she says. "I learned why we had co-ops and how they were born out of necessity. Growing up on a farm I can really appreciate what they've done for us." In 1988, Karen graduated from Pembroke State University and went to work at Lumbee River EMC in Red Springs as a field engineer.



J. Michael Davis

Mike Davis was a junior at East Duplin High School when he represented Jones-Onslow EMC on the 1970 tour. "An English teacher of mine talked me into submitting an essay to the contest and I did, hoping I would be a runner up and collect the \$50 prize rather



1967 Youth Tour, the first for North Carolina co-ops.

Rural Electric Youth Tourists *Where are they now?*

than the trip to Washington," he remembers. But Mike won and joined 28 other students on their journey to Washington. "Before I left, it was just another trip because I had been to Washington before with my family, but later I realized how much more I was able to see with this group and how much I had learned about co-ops; what they're about and how they do business. Too many people see the electric co-ops as just another utility." After he graduated from East Carolina University with a bachelor's degree in accounting, Mike went to work for Tri-County Electric Membership Corporation in Dudley, where six years ago he became general manager.

Robin Nesmith Murray

Robin Nesmith Murray recalls her Youth Trip experience when she represented Brunswick EMC in 1980. "It was my first trip to D.C. and I was so excited," she says. "The trip gives a 17-year-old kid a chance to get away from home and to mature and grow up a little." While on the tour, Murray remembers seeing President Jimmy Carter on the lawn of the White House. "I was impressed by all



those successful, ambitious people we and saw in Washington. I was able to see what the payoff for hard work could be.

Originally from eastern North Carolina (her parents live at Sunset Beach), Robin lives in Chicago and works as an actuary for the Illinois State Medical Insurance Exchange.

Sheila Mathis Sanders

Sheila Mathis Sanders represented Blue Ridge EMC on the Youth Tour in 1974. It was her first trip to Washington and she vividly remembers playing the piano in the East Room of the White House. "I didn't play any grand songs," she says. "But I did bang out a few no. 1s. I thought that was so cool." The Youth Tour was Sheila's first real travel experience, and looking back she believes "the Youth Tour was the starting point for my love of travel." Later, as a student at the University of North Carolina at Chapel Hill, she went to the University of London as an exchange student. Through her work with the Justice Department, she traveled extensively across the country and abroad. After working as a paralegal at Glaxo for four years, she attended law school at night. In 1991, she passed the bar and has since worked as a corporate attorney for Glaxo in Research Triangle Park.

—Kim Whelan

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What is different about the direct broadcast satellite dish?

Because of recent confusion about emerging satellite TV services and equipment, the National Rural Telecommunications Cooperative (NRTC) has summarized the different technology available.

C-band: These are the larger dishes most often seen across the countryside, measuring 6-12 feet across. These dishes receive uncompressed analog signals operating within the frequency range known as the C-band. For years, C-band satellites helped open the door to cable programming for many people in non-cabled areas.

Medium power Ku-band: There are a number of satellite services which use a different frequency bandwidth called the Ku-band. As a rule, these services use a 4- to 5-foot dish and primarily provide highly specialized business services, such as teleconferencing. One service, however, is using a 4-foot dish to provide a limited selection of television to rural households. While C-band and Ku-band services are used to deliver direct-to-home television programming, they were not originally designed for this purpose.

DBS: A new service, called DirecTV (TM) uses a technology called direct broadcast satellite (DBS). Unlike C-band and medium power Ku-band, high-power

DBS is licensed by the FCC for the specific purpose of delivering television programming to the home.

With the development of new high-power DBS satellites and digital compression technology, DirecTV will operate in the Ku-band, but will be unlike anything ever transmitted over this frequency band. While Ku-band satellites usually generate signal strength of only 45 watts per transponder, the DBS satellites will broadcast at 120 watts each. The higher power translates into a smaller receiving dish — 18 inches or less. In mid-December, America's first digital DBS satellite was launched into space, opening the door to this new kind of high-quality, direct-to-home satellite service.

The satellite's signal is digital, which means it will produce crystal-clear TV pictures and compact-disc quality sound. The signal is compressed, meaning each satellite (and there will be two in orbit) can carry many more channels than ever before possible. DirecTV promises to deliver approximately 150 channels of programming.

The signal's strength eliminates the need for a large, motorized dish to bring in the satellite's signal. The 18-inch dish can be mounted in a variety of places and is virtually maintenance-free.

The demand has already been so great that supplies of the dish and receiving equipment will be limited through the summer. Costs for the dish and accompanying decoder box are expected to start at about \$700, not including installation.

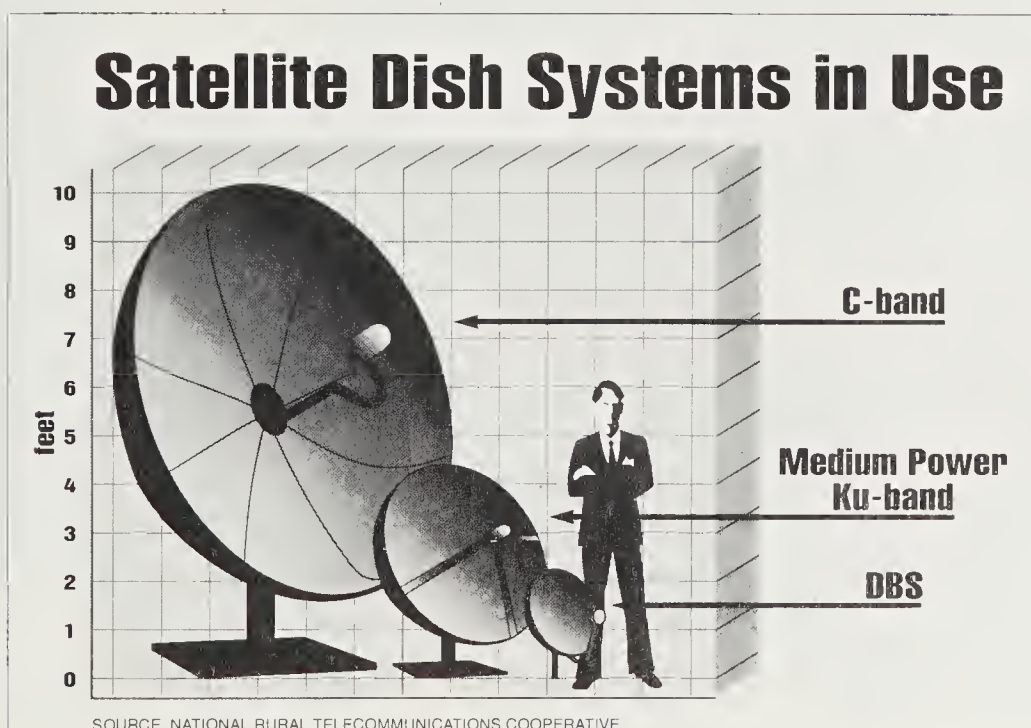
When sufficient equipment is available, it will be sold by dealers, such as electronics stores.

PrimeWatch, Inc., a subsidiary of Halifax Electric Membership Corporation in Enfield, also is selling the equipment (with a special interest in electric co-ops) and DirecTV programming. PrimeWatch this spring received approval to sell the programming anywhere in North Carolina.

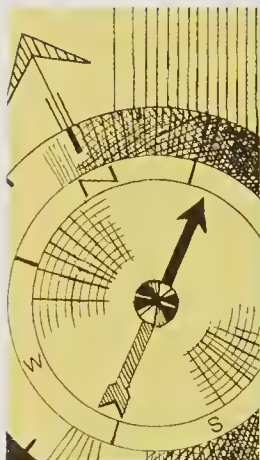
PrimeWatch is responding to inquiries and taking deposits from co-op members who want to subscribe to DirecTV. The waiting list already is long, says PrimeWatch assistant general manager Rick Sanderson.

PrimeWatch is discussing arrangements with other electric cooperatives in North Carolina that may streamline the process of subscribing to DirecTV programming.

For more information, call PrimeWatch at (800) 775-0068.



Here, There and Everywhere



Across
North Carolina.

Civil War Relics

June 4-5, Murfreesboro, Tenn.

Display of buttons from Civil War uniforms and other relics from the period. Dealers from all over the country will participate, and an appraiser will be on hand. Open 9 a.m. to 5 p.m. Saturday, and 9 a.m. to 3:30 p.m. Sunday. Admission is \$4, children under 12 free. Contact the Sam Davis Home, 1399 Sam Davis Road, Smyrna, Tenn. 37167. Phone: (615) 459-2341.

Ben Long exhibit

June 5-July 8, West Jefferson

Month-long exhibit of works by Tar Heel native Ben Long, known for his frescoes at the NationsBank Corporate Center and St. Peter's Catholic Church in Charlotte, as well as works in two Ashe County churches. At the Ashe Arts Center. Contact Ashe County Arts Council, P.O. Box 353, Jefferson N.C. 28640. Phone: (910) 246-ARTS.

Antique Power Festival

June 10-11, Albemarle

Antique tractor pulls, kid's tractor pulls, antique engines,

tractors and cars, corn milling, working craftsmen and blacksmiths at the Stanly County Fairgrounds. Antique tractor pull at 7 p.m. Friday and Saturday. Admission is \$4, children under 12 free. Contact the Stanly County Antique Power of Yesterday Club, P.O. Box 1905, Albemarle, N.C. 28002. Phone: Hal Harwood (704) 982-6707.

Blue Ridge Hearthside Crafts

June 10-12, Boone

Entertainers, demonstrators, loggers and food vendors at the Craft Pavilion Art Gallery on 105 South. One of four craft shows held yearly by this non-profit craft cooperative. Contact Blue Ridge Hearthside Crafts, Rt. 1, Box 738, Banner Elk, N.C. 28604. Phone: Helen Carmichael (615) 674-2229.

Albert Hash Festival

June 11, Jefferson

Ten bands perform old-time music (non-electrical instruments) throughout the day. Admission is \$5 for adults, \$3 for students and free to children ages 4 and under. Proceeds benefit the Ashe Civic Center. Contact Maude

Calhoun, P.O. Box 1102, West Jefferson, N.C. 28694. Phone: (910) 246-4483.

Junior Sailing Program

June 13-August 5, Beaufort

This program will double in size this summer. Eight two-week courses: four from 8:30 a.m. to noon, and four from 1 p.m. to 4:30 p.m. Applicants must be ages 8-15. Tuition is \$130. Contact N.C. Maritime Museum, 315 Front St., Beaufort, N.C. 28516. Phone: (919) 728-7317.



Rhododendron Festival

June 17-19, Blowing Rock

Arts, crafts, entertainment and food at the Roan Mountain State Park. Contact Blowing Rock Chamber of Commerce, P.O. Box 406, Blowing Rock, N.C. 28605. Phone: (615) 772-3314.

Right: Albert Hash will be remembered at a benefit performance in Jefferson on June 11. Below: Bolick Family Pottery kiln opening festival is June 25 in Blowing Rock.



Operating train layouts, dollhouses and other toys in Charlotte on June 25-26.



Deadlines

Deadlines for submitting notices to "Here, There and Everywhere."

August issue.....June 25

September issue...July 25

October issue.....August 25

We welcome photos and illustrations of coming events. Send notices to Calendar, Carolina Country, P.O. Box 27306, Raleigh, N.C. 27611.



Summer A-Fair"

June 18, Wilmington

Doplar Grove Historic Plantation hosts "It's a Summer A-fair" featuring arts and crafts, an herb fair, a medieval festival and concessions. Contact B.J. Ryan, 20200 U.S. Highway 17, Wilmington, N.C. 28405. Phone: (910) 686-9989.

Cattle auction

June 25, Iredell County

Kick-off fundraiser for the new North Carolina Dairy Youth Foundation opens at 10 a.m. at the Stamey Farm, off I-40 near Statesville. All breeds of registered dairy cattle, plus produce, merchandise and crafts. Benefit to fund the dairy youth foundation and funding dairy youth activities in North Carolina. Contact Brinn Hopkins, Cooperative Extension, Box 7621, N.C. State University, Raleigh, N.C. 27695. Phone: (919) 515-2771.

In Opening and Heritage

June 25, Blowing Rock

Wood-fired pottery face jugs, corn grinding, a quilting party, mountain music and trout

fishing contest at the Bolick Family Pottery, Highway 321 south of Blowing Rock. Contact Bolick Family Pottery, Rt. 8, Box 285-A, Lenoir, N.C. 28645. Phone: (704) 295-3862.

Trains, dollhouses & toys

June 25-26, Charlotte

Greenberg's Great Train, Dollhouse & Toy Show features operating train layouts, dollhouse displays, toy trains, miniatures and collectible toys, 11 a.m. to 5 p.m. both days at the Metrolina Expo Center. Admission is \$5 for adults, \$2 for children ages 6-12. Contact Greenberg Shows, Inc., 7566 Main Street, Sykesville, Md. 21784. Phone: (410) 795-7447.

Croaker Festival

July 1-2, Oriental

The 4th of July Pamlico County Croaker Festival takes place on the Oriental waterfront. Parade, arts, crafts, entertainment, food, fireworks and a street dance. Contact Virginia Jenks, P.O. Box 23, Bayboro, N.C. 28515. Phone: (919) 249-1851.

An Appalachian Summer

July 1-30, Boone

The High Country's Festival of the Arts celebrates its 10th anniversary throughout the month of July with a whirlwind tour of arts, including music, dance, theater and visual arts. Performers include Emmylou Harris, Carlos Santana Spanish Dance Company, North Carolina Symphony, Louisville Orchestra, Pancho Sanchez, American Indian Dance Theatre, and the Ohio Ballet. Also a fireworks extravaganza. Contact Beth Blair, Office of Cultural Affairs, Appalachian State University, Boone, N.C. 28608. Phone: (704) 262-2853.

Festival for the Eno

July 2-4, Durham

More than 65 performing acts of bluegrass, blues, folk, jazz and rock & roll music. Over 100 artists demonstrating and exhibiting juried wares. Also, 20 food vendors. Proceeds help preserve the Eno River and surrounding park. Over 35,000 attended last year. Contact Festival for the Eno, 4409 Gness Road, Durham, N.C. 27712. Phone: (919) 477-4549.

Checker Tournament

July 5-7, Ahoskie

The Ramada Inn hosts the N.C. Open State Checker Tournament featuring

ing eight rounds of Swiss-style play. Registration at 9 a.m. on July 5. Play begins at 10 a.m. Registration fee is \$10. Contact Cecil Lowe, 1340 N.C. 42, Colerain, N.C. 27924. Phone: (919) 356-4459.

"Copperhead" locomotive

Spencer

The Transportation Museum at Historic Spencer Shops has added a rare 1913 vintage "copperhead" steam locomotive to its permanent collection. The museum now has a steam locomotive from three out of four major railroads that operated in North Carolina in the first half of the century. Contact Fay Mitchell Henderson, 109 E. Jones St., Raleigh, N.C. 27601. Phone: (919) 733-5722.

Indian village

Through Oct. 25, Cherokee

Oconaluftee Indian Village open for the season offering first-hand look of 18th century life among Cherokees. Demonstrations of making beadwork, baskets, pottery, woven goods, canoes and weapons. Guided interpretation. Nearby arboretum, nature trail and "Unto These Hills" outdoor drama. Contact Cherokee Historical Association, U.S. Hwy. 441 N., Cherokee, N.C. 28719. Phone: (704) 497-2111.

Emmylou Harris (below) and the Ohio Ballet (right) perform at the "Appalachian Summer" festival in Boone.



The Oconaluftee Indian Village, Cherokee, is open for the season.

Hank's Gardening Guide

by Hank Smith



A good time to take cuttings of shrubs and trees.

Gardening activities reflect seasonal change

As spring ambles toward summer, pause to reflect on your accomplishments. Enjoy the flowers, vegetables and other fruits of your labor.

Gardening activities are a reflection of the seasonal change. If showers are few and far between, water frequently and deeply. This encourages the development of a deep root system which results in strong plants.

Additional plantings, spraying, fertilizing and pruning are on the list of garden chores to be done. Make frequent inspections to control insects and diseases.

Now's a good time to take cuttings of desired shrubs and trees. Use mature wood of this year's growth.



Spring-flowering bulbs

If spring-flowering bulbs have not yet been dug, you should dig-divide-reset them after the foliage has died down. This job should be done every three or four years. Crowded bulbs will produce fewer and smaller blooms.

After foliage has died down, dig and store hyacinth and tulip bulbs. If not crowded, other bulbs may be left in the ground.

Bearded iris may be dug-divided-replanted after plants have completed blooming. Before replanting, thoroughly mix a half pound of 5-10-5 fertilizer and about four inches of organic matter into each 10 square feet of soil area.

Mum Cuttings

Now's the last call for making cuttings of chrysanthemums to root for garden color in the fall.

Make cuttings four to six inches long. Take them at the tips of stems to avoid mature woody growth. Often tender growth is free of disease organisms and roots faster than older wood.

Place cuttings in moist garden soil mixed with clean sand. Within three weeks they should be well rooted and ready to plant in their permanent garden beds. A dusting of root-inducing hormone usually stimulates the formation of a strong root system.



Poinsettia care

If you're growing your Christmas poinsettia as a pot plant, pinch off new branches when they are six to eight inches long. This will promote branching to make a more compact plant next Christmas.

Continue to pinch (remove tips) through August.

Study your landscape

Now that plants are in their prime, take a good hard look at your landscape. See if plantings can be better arranged, planned-and-planted to increase your family's enjoyment, as well as to cut down on the time spent in maintenance.

Check to see if there is an area in need of an evergreen hedge to hide an unsightly view. Is there a need for tall-growing evergreen shrubs or trees to serve as a windbreak —especially to curb cold winter winds aimed at the house? Is a shade tree needed near the west wall of the house; a tree that will cast much appreciated shade in the summer? If so, choose a deciduous specimen so winter sun rays can reach the house.

Is there more lawn area than needed? Can some of the area be put into groundcovers? Or perhaps some lawn space can be "given back" to the woods or fields that edge the yard. Beds of flowering shrubs for both spring and summer color may be a consideration.

Have shade trees become so large they cast too much shade which limits the growth of plants beneath them? Often, the removal of several limbs and branches will open-up the tree so more of the sun's rays can reach the ground beneath.

Summer watch

1. Prune shrubs that have completed flowering.
2. Begin cutting fescue lawn at the highest setting on the lawn mower.
3. After pruning away diseased branches of plants, disinfect the pruning tool in one part household bleach to eight parts water.
4. Fertilize summer grasses as centipede, zoysia and Bermuda. Do not fertilize cool season grasses as Bermuda and bluegrass.
5. Remove tomato leaves that have been scorched by early blight.
6. Cut flowers in early morning or late afternoon. Plunge stems into warm water for about an hour before arranging.
7. Apply a tablespoon of 10-10-10 fertilizer to geranium plants. During summer's hottest periods geraniums become shy-bloomers. When nights begin to get cool, they'll bloom profusely again.
8. Pull weeds after a shower. Their roots come out more easily if soil is moist.
9. Late spring and early summer are critical times moisture-wise for newly planted trees and shrubs. If there are not heavy showers, water deeply twice a week.
10. Harvest herbs frequently to encourage new growth.
11. Control slugs by placing ashes or builders' sand in a ring around plants. Or sink a saucer of beer at soil level. Beer attracts slugs and they drown.
12. Clip away faded blooms of zinnias, marigolds, petunias, roses and geraniums. This encourages flower bud formation.

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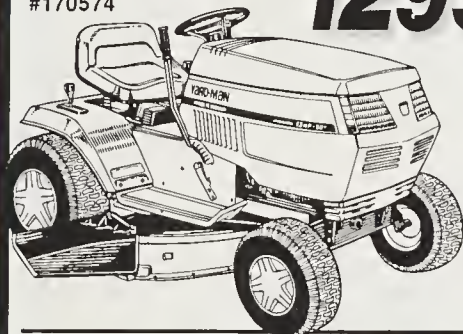
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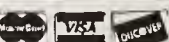
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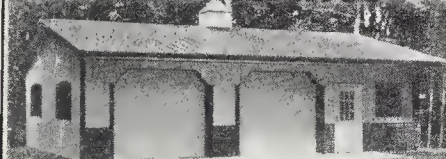
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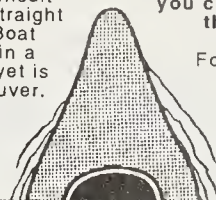
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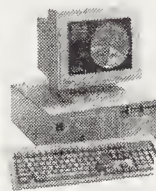


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What exactly is electricity?

Thoughts of electricity: "Both gladness and wonder."

The kid had the right idea, but his count was a tad low. The fourth grader was trying to explain electrons in a report on how electricity works. He wrote, "A hundred electrons equal one television program."

Well, there's no doubt that the program appears on the tube only because great hordes of electrons are moving quickly through the electrical outlet and into the TV set. But how many? Billions and billions every second, according the basic electricity text I consulted. The exact number would look something like this:
10,000,000,000,000,000,000.

If you were able to punch that into your calculator to determine how many electrons run through the tube during a typical sitcom, you'd get an impressive figure. Such numbers can't be translated into words, but most of us

couldn't comprehend them anyway — whether we used words or numerals.

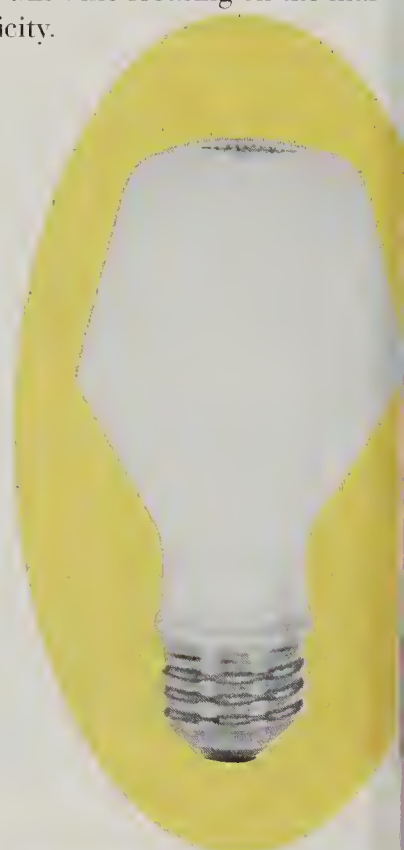
No wonder the fourth grader's count wasn't on target. Yet, it's clear that he understood the crucial point. He saw the link between "Home Improvement" and those tiny particles: without them the world would never know what kind of mischief Tim Allen is getting into each week.

The kid's comment on electrons was one of several quotes from elementary school students that came across my desk some time ago. Some of them appeared in this space last month, offering a lighthearted look at energy conservation. (See below.) You'll find more examples of the students' observations below left — this time focusing on the marvels of electricity.

Electricity and How It Works

Wit and wisdom from elementary school students

- ☼ Electricity has been with us forever and maybe even longer.
- ☼ The Dark Ages lasted until the invention of electricity.
- ☼ The Indians did not have electricity. They used smoke signals in both the A.C. and D.C. times.
- ☼ When we take the electricity and push and squeeze it through the wires, we call it communication. What the electricity calls it is unknown.
- ☼ Would the average person live less well if it was not for electricity? The chances are 999 out of a hundred.
- ☼ You should always capitalize the word electricity unless it is not the first word in the sentence.
- ☼ Ideas about all the ways we can use electricity have advanced to the point where they are no longer understandable.
- ☼ I looked up what a neutron is twice but I forgot it three times.
- ☼ When I learned we were going to see a movie about how electricity works, I told my feet to quiet down, but they felt too Saturday to listen.
- ☼ The best thing live wires are good for is running away from.
- ☼ Electrons carry the negative charge while protons provide the affirmative.
- ☼ Correct my being wrong [sic] but tell me true or false. Do negative charges go through electrons or through protons? I wrecked my brain trying to think which.
- ☼ Every time I think how electricity does so much for us, I have joy feels all over. From now on, I will put both gladness and wonder in my same thought about electricity.



Your idea may win

If last month's column didn't inspire you to share your energy conservation ideas with us, I hope you will still do so. Just write us a note describing steps you've taken to effectively reduce energy use in your home or business. If we publish your tip, we'll send you a small gift: a special extended-life light bulb that may help you further reduce your energy use. Send your suggestions to Energy Conservation Ideas, Carolina Country, P.O. Box 27306, Raleigh, N.C. 27611.

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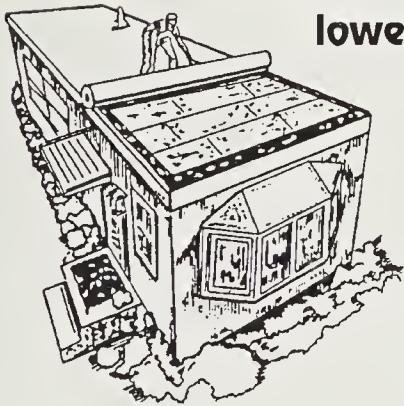
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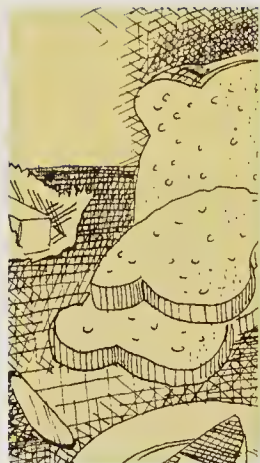
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- ☐ Seal, paint, repair every year
- ☐ Rumbles in winter wind
- ☐ Deteriorates annually

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Country Kitchen



"This is a change from the original Rice Krispies treats."

Mars Krispies



Submitted by Veneda Hockaday, Creedmoor

½ cup margarine
3 Mars Bars or Snickers
3 cups Rice Krispies

Melt margarine and Mars Bars (or Snickers) until creamy. Stir in Rice Krispies. Pat into 9-inch by 9-inch pan. Cool, cut, and serve. Great for snacks!

Want to share recipes?

If you would like to share a recipe with Country Kitchen, send it to Recipe Carolina Country, P.O. Box 27306, Raleigh, N.C. 27611.

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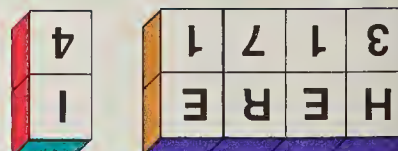
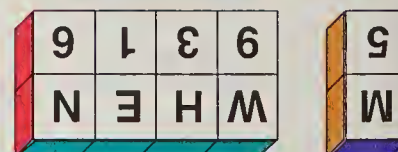
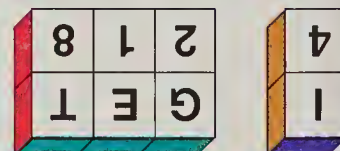
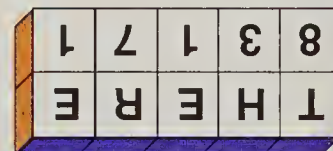
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Answers to



From page 15



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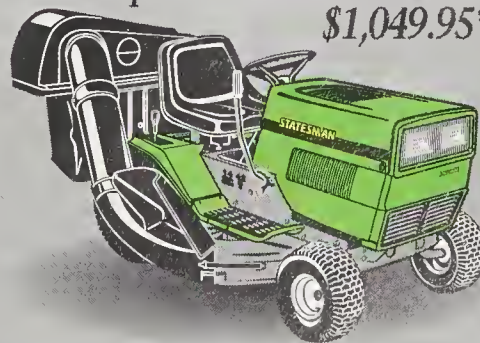
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